Use this information as a guide for CCD-MCU harness compatibility. Replacing the MCU is NOT recommended as additional MCU programming may be required.

SHARP

Technical Bulletin

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Sharp Electronics Corporation
Services and Support Group
1300 Naperville Drive
Romeoville, IL 60446

Number: AR-153E-007 **Date: June 2003**

ALL MCU AND ELECTRICAL PART SALES ARE FINAL NO RETURNS FOR ANY REASON.

Subject: Parts Change To The MCU PWB (L1-00 Trouble).

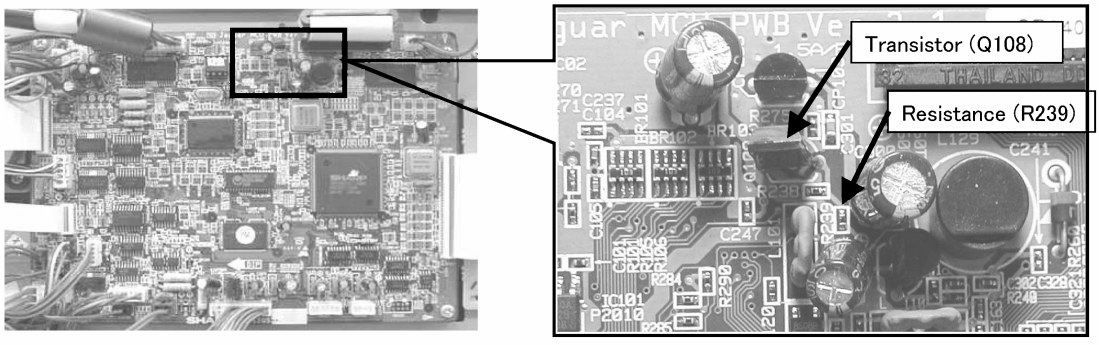
1. Model: AL-1215/1530CS/1540CS/1551CS
AR-153E/157E/153EN/157EN

2. Symptom: The Copy Lamp is intermittently turned off which may cause L1-00 trouble.

3. Corrective Action: If L1-00 trouble is experienced, replace the resistor R239 to the new style (5.6k ohm type).

4. Note: Check the condition of transistor Q108 (PN: VSKTA1281++-1) when troubleshooting the MCU PWB after replacing R239.

[MCU PWB]



Refer to page 2 for part descriptions and price ranks.

From January 2003 production.

Model	P/G No.	Previous Part	New Part	Price Rank	Description	Inter-change-ability
AL-1215 AL-1530CS AL-1540CS AL-1551CS	30-109	VRS-CZ1JD471J	VRS-CZ1JD562J	AA	Resistor R239	3
AR-153E AR-157E	28-109					
AL-1215	30-901	CPWBX0112QS31	CPWBX0121QS41	BW	MCU PWB	1
AL-1530CS		CPWBX0112QS32	CPWBX0121QS42			
AL-1540CS		CPWBX0112QS33	CPWBX0121QS43	BX		
AL-1551CS		CPWBX0112QS34	CPWBX0121QS44			
AR-153E	28-901	CPWBX0112QS3D	CPWBX0121QS3C			
AR-157E			CPWBX0121QS3D			
AR-153EN	30-901	CPWBX0121QS33	No Change	BY		
AR-157EN		CPWBX0121QS34				

Interchangeability

1. Interchangeable	4. Not interchangeable
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use.
3. Current type cannot be used in place of the new type. New type can be used in place of current type.	6. Others.

Note 1: When replacing the MCU PWB on the AR-153E/157E/153EN/157EN make sure to look at the Serial Number Plate on the rear of the machine to determine if you have an “E” model or “EN” model. The MCU PWB’s are different for these models. On the “E” version Connector CN106 is 4 pins and on the “EN” version CN106 is 10 pins.

Note 2: On machines produced from January 2003 production resistor R239 has been changed to the 5.6k ohm type so the new MCU PWB’s will have the new style resistor.

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Technical Bulletin

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Sharp Electronics Corporation
Services and Support Group
1300 Naperville Drive
Romeoville, IL 60446

Number: AR-153E-004 **Date: April 2003**

Subject: MCU PWB Clarification.

1. Model: AR-153E/157E/153EN/157EN
AL-1551CS

2. General: The following correction has been made to the Parts Guide for the models listed above.

From 1st Lot production.

Model	P/G No.	Previous Part	New Part	Price Rank	Description Note	Inter-change-ability
AR-153E AR-157E	28-901	CPWBX0112QS3D	CPWBX0112QS34	BX	MCU PWB	6
AR-153EN	30-901	CPWBX0121QS33	No Change	BY		
AR-157EN		CPWBX0121QS34				

Interchangeability	
1. Interchangeable	4. Not interchangeable
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use.
3. Current type cannot be used in place of the new type. New type can be used in place of current type.	6. Others.

Note: CPWBX0112QS34 is no longer available as a service item from our National Parts Center. When ordering a MCU PWB from our National Parts Center please use the Part Numbers provided below.

From January 2003 production.

Model	P/G No.	Previous Part	New Part	Price Rank	Description Note	Inter-change-ability
AR-153E	28-901	CPWBX0112QS34	CPWBX0121QS3C	BX	MCU PWB	1
AR-157E			CPWBX0121QS3D			
AL-1551CS	30-901		CPWBX0121QS44			

Interchangeability	
1. Interchangeable	4. Not interchangeable
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use.
3. Current type cannot be used in place of the new type. New type can be used in place of current type.	6. Others.

SHARP®

Service Bulletin

MFP

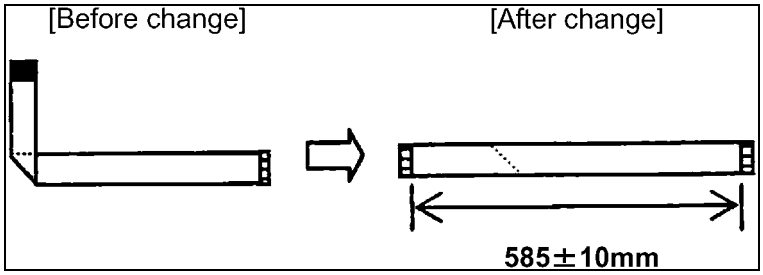
Sharp Document Solutions Company of America
Service & Support Group

Number:MFP-SB-020 **Date:** February 2005

Models: AL-1215/1216/1217/1225/1226/1530CS/1540CS/1551CS/1555/1631/1641CS
AL-1645CS/1651CS/1661CS
AR153E/153EN/157E/157EN/168D/168S

Subject: Notes When Replacing The CCD-MCU Harness (Section 10, Item 40)

To improve productivity, the CCD-MCU Harness is changed from the folded type to the straight type. CCD-MCU Harness replacement procedure is shown in this document.



From July, 2004 production.

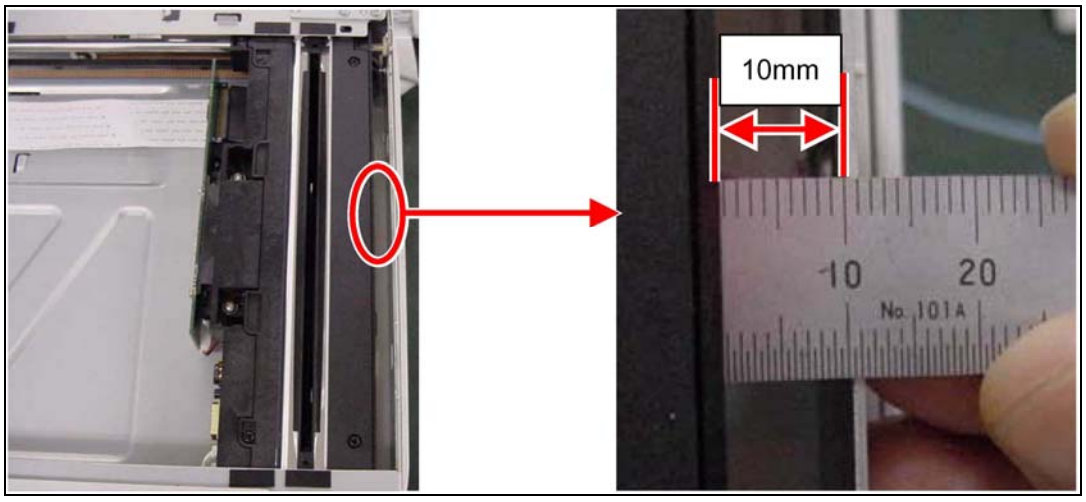
P/G No.	Previous Part	New Part	Price Rank	Description	Inter-change-ability
10-40	DHAI-0268QSZZ DHAI-0268QSZ1	DHAI-0268QSZ3	AG	CCD MCU HARNESS	1

Interchangeability

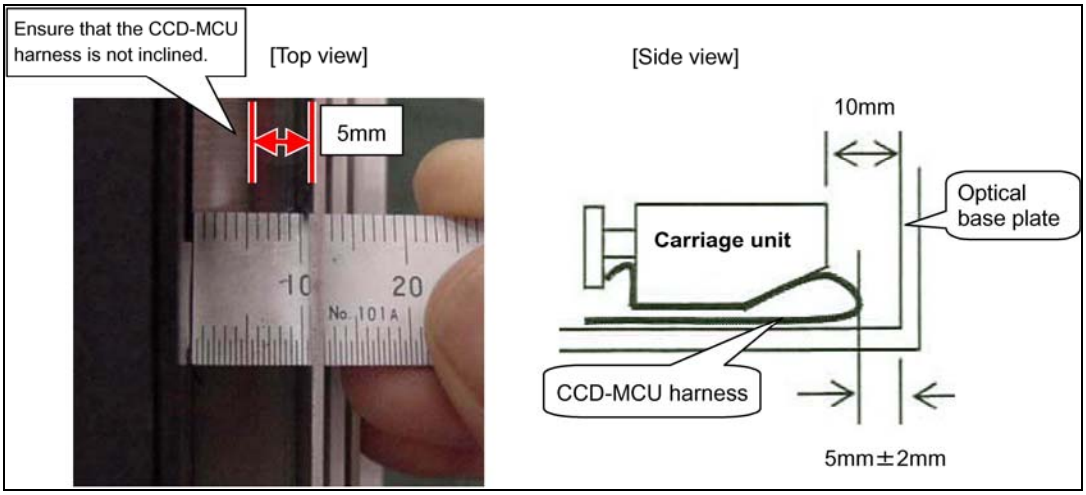
1. Interchangeable	4. Not interchangeable
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use.
3. Current type cannot be used in place of the new type. New type can be used in place of current type.	6. Others.

CCD-MCU Harness Replacement Procedure

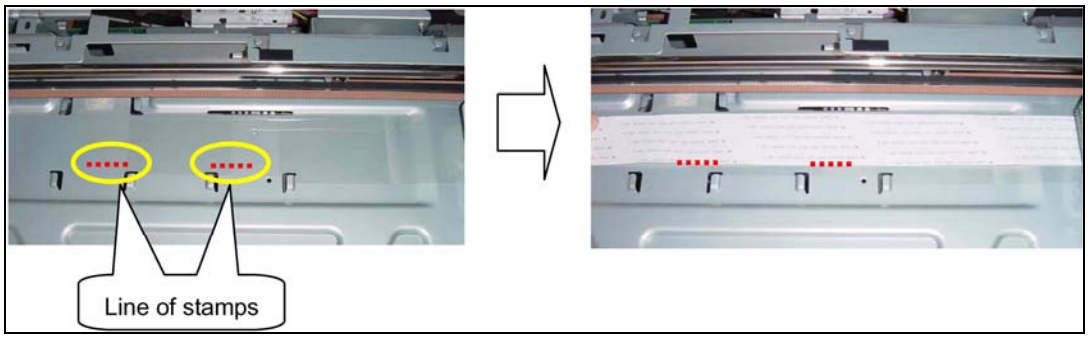
1. Remove the table glass and attach the CCD-MCU harness to the carriage unit. Leave 10mm between the optical base plate and carriage unit.



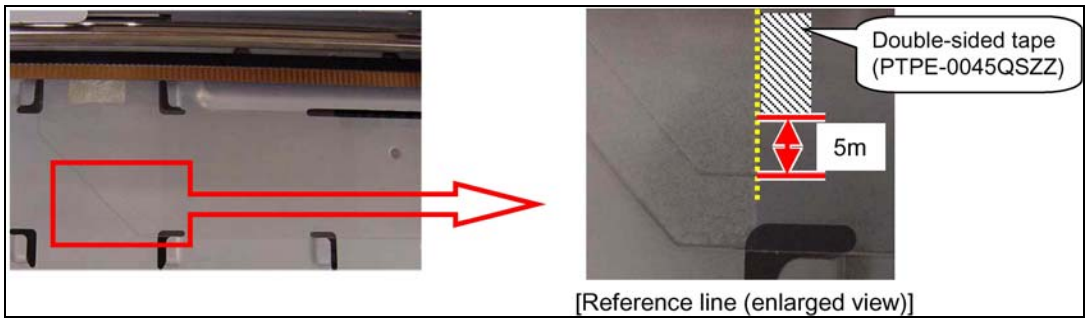
2. Adjust the space between the end face of the optical base plate and harness to 5mm.



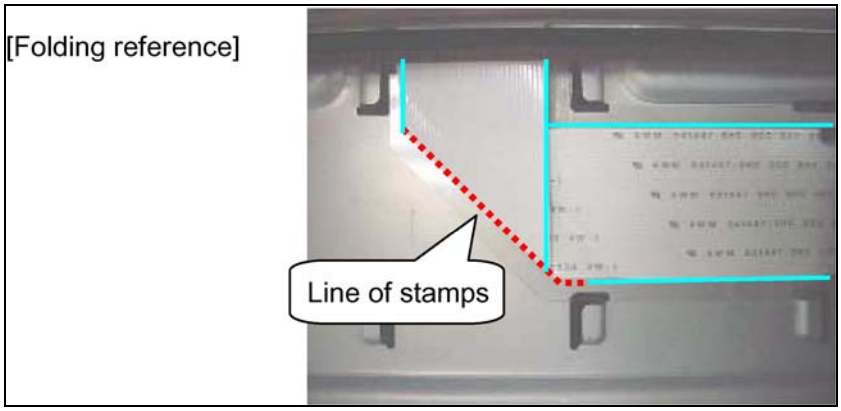
3. Lay the CCD-MCU harness along the dotted line as illistrated on the optical base plate. Ensure that the CCD-MCU harness has no slack.



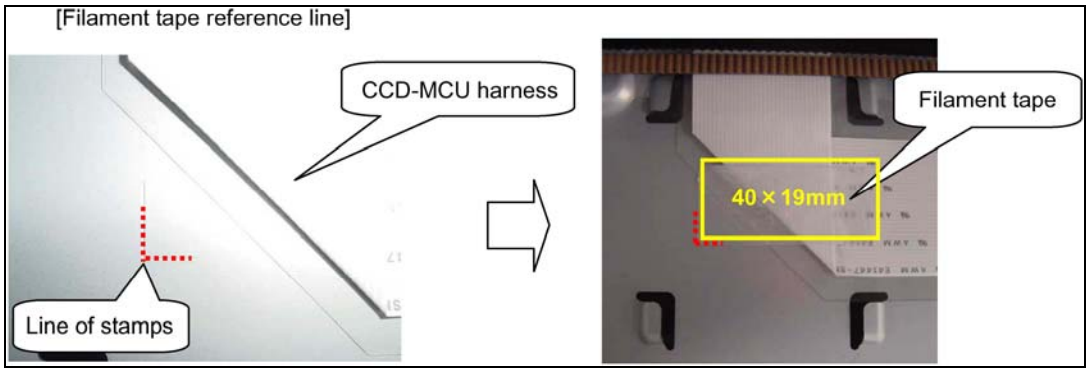
4. Apply double-sided tape (PTPE-0045QSZZ/19 x 10mm) along the reference line shown in the figure below.



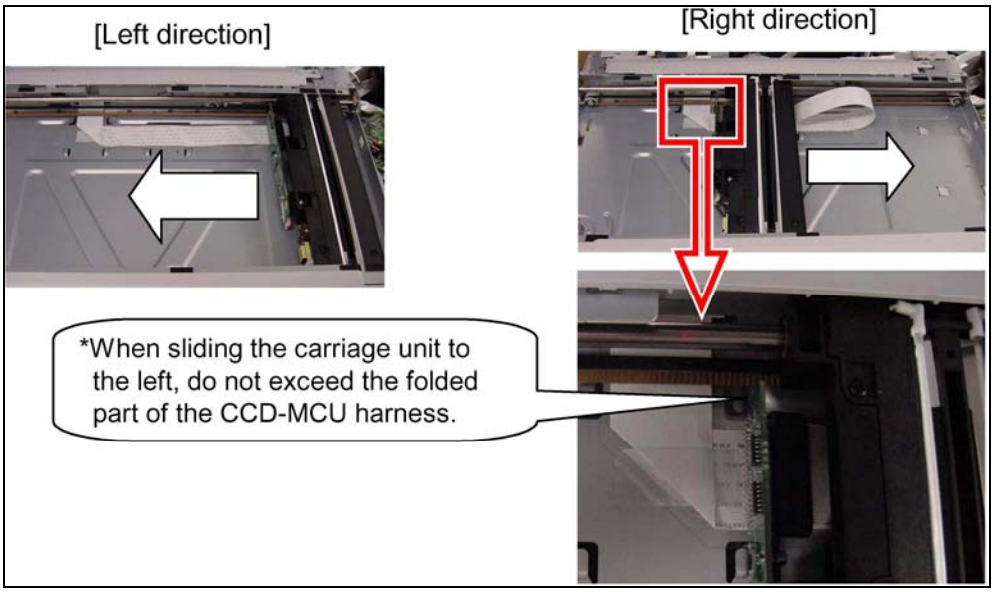
5. Fix the CCD-MCU harness with double-sided tape and fold it along the reference line (a dotted line) shown in the figure below.



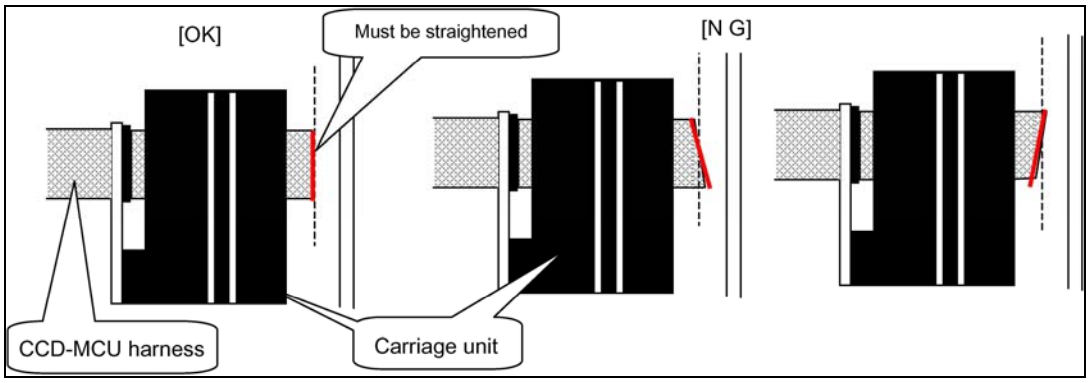
6. Fold the CCD-MCU harness and apply filament tape (40 x 19mm) along the dotted line of to secure the harness.



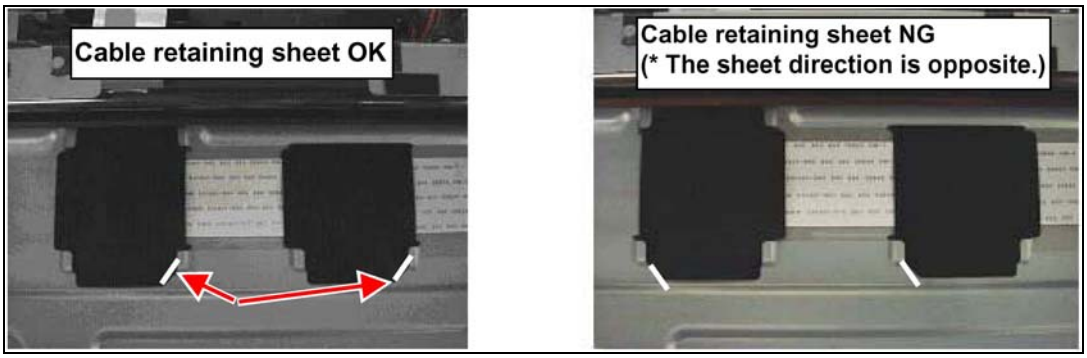
7. Straighten the CCD-MCU harness so there is no slack. Slide the carriage unit and harness to the right and left three times. *Refer to the figures below for where to slide.


[Left direction]
[Right direction]
*When sliding the carriage unit to the left, do not exceed the folded part of the CCD-MCU harness.

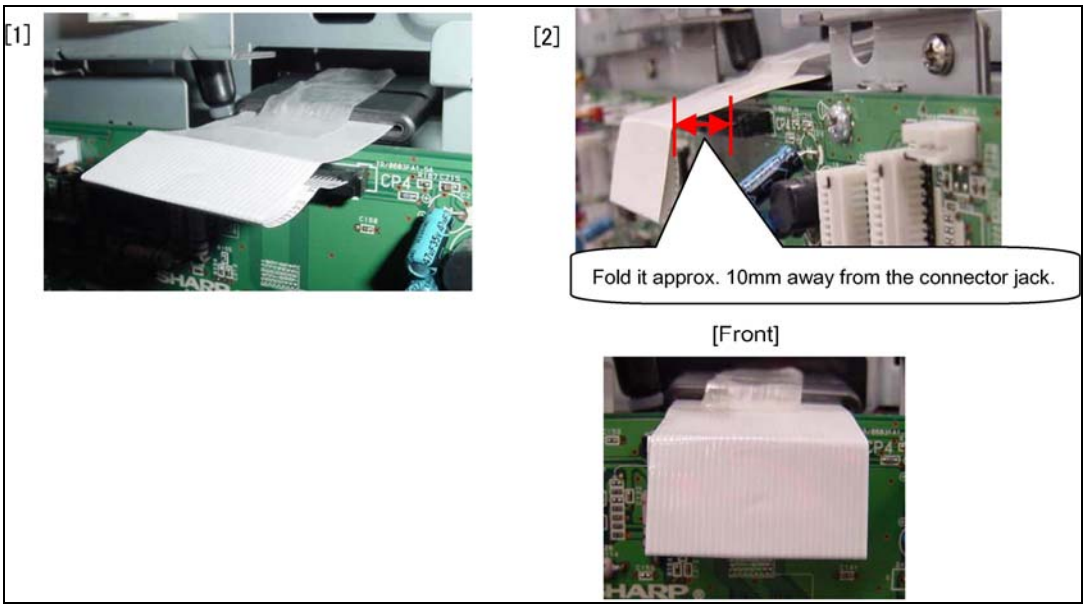
8. Leave 10mm between the optical base plate and carriage unit as mentioned in the step 1 and ensure that the CCD-MCU harness is straightened. If the CCD-MCU harness is inclined, adjust its position until it is straightened.



9. Mount the cable-retaining sheet (PSHEZ0367QSZ1) along the notch.



10. Fold the CCD-MCU harness as shown in the figure below in order to prevent it from being jammed.
    [1] Fold the CCD-MCU harness with it inserted into the connector.
    [2] Fold it approx. 10mm away from the connector jack.



SHARP

MFP

Parts Bulletin

Sharp Document Solutions Company of America
Service & Support Group

Number: MFP-PB-045 **Date: January 2005**

Model(s): AL-1530CS/1540CS/1551CS/1631/1641CS
AR-153E/153EN/157E/157EN

Subject: Parts Change to the Carriage Unit.

Description: The parts for the carriage unit are changed to ones commonly used with new products.

From August 2004 production.

Previous Part	New Part	Price Rank	Description	Inter-change-ability
DUNT-0276QS11	DUNT-0404QSZZ	BU	Carriage Unit	5
PMLT-0068QSZZ	None	---	Core Holder	
PSHEZ0401QSZ1			Scanner Core Sheet	
LFIX-0025QSZZ			CCD Harness Holder	
PSHEZ0390QSZZ			PWB Holder Sheet	

Interchangeability

1. Interchangeable	4. Not interchangeable
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use.
3. Current type cannot be used in place of the new type. New type can be used in place of current type.	6. Others.